

# METHODS AND APPARATUS FOR IMPLEMENTING HOME AGENT REDUNDANCY

## ABSTRACT OF THE DISCLOSURE

Methods and apparatus for maintaining Mobile IP operation in a Home Agent are disclosed. In a Home Agent, a Mobile Node is registered and a registration entry is created in a mobility binding table for the Mobile Node. A multicast message is then sent to a virtual router group to which the Home Agent belongs and with which the Home Agent shares a virtual IP address. The multicast message notifies the virtual router group of the registration. A similar process may be performed when a Mobile Node is de-registered. When an active or non-active Home Agent is initialized, it sends a multicast mobility binding table request to the redundancy group indicating that bindings are requested. The Home Agent may then receive bindings in response to the request and update its mobility binding table with the received bindings.